इंटरनेट मानक

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IS 8501 (1977): Anaerobic Jar [MHD 10: Medical Laboratory Instruments]

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Bhartṛhari—Nītiśatakam
“Knowledge is such a treasure which cannot be stolen”

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IS: 8501-1977

Indian Standard

SPECIFICATION FOR ANAEROBIC JAR

(Reaffirmed 2001)

1. Scope — Dimensional and other requirements of anaerobic jar used in bacteriological work.

2. Materials

2.1 *Jar* — Clear, colourless glass (for definitions see IS: 1382-1961 Glossary of terms relating to glass industry). It shall satisfy the requirements given in **5.2.**

2.2 *Lid and Strip For Lifting The Lid* -Brass conforming to IS : 410-1967 ' Specification for rolled brass plate and sheet, strip and foil (second revision) '.

2.3 *Valves for Connection to Hydrogen and Vacuum* Supplies, Clamp, Clamping Screw and Clamp Seat — Brass conforming to IS : 319-1974 ' Specification for free cutting brass, bars rods and section (*fhird revision)* '.

2.4 A suitable catalyst 'which catalyses the combination of hydrogen and oxygen and is active at temperature above 0°C.

2.5 An '0' ring provided on the underside of the lid made of suitably compounded and vulcanized natural or synthetic rubber.

3. **Shape and Dimensions** — As shown in Fig. 1.

4. Workmanship and Finish

4.1 The glass jar shall be well annealed, and substantially free from bubbles, striae, stones and other visible defects (for definitions see IS : 1382-1961). The top bearing surface of the jar, over which the lid rests, shall be ground evenly. The jar shall not rock when placed on a level surface and shall not topple over on a surface inclined at an angle of 10 degree to the horizontal.

4.2 The undersurface of the lid shall have a smooth machine finish. The bearing surface of flange of the lid shall be finished extra smooth in order to rest perfectly on the top of the jar. The lid clamp shall be designed in such a manner as to tighten the lid rapidly. After clamping, the lid shall give an air-tight fitting without application of Vaseline between the surfaces.

4.3 All metal parts shall be free from cracks, tool marks, sharp edges and like defects.

4.4 The outside surface of the lid and the clamp shall be spray painted with stove enamel (see IS : 149-1950 Specification for ready mixed paint, spraying, under-coating, stoving, for enamels and general purposes, colour as required and IS: 151-1950 Specification for ready mixed paint, spraying, finishing, stoving, enamel, for general purposes, colour as required) or shall be brush painted (see IS : 148-1950 Specification for ready mixed paint, brushing, under-coating, stoving for enamels and general purposes, colour as required and IS: 150-1950 Specification for ready mixed paint, brushing, finishing, stoving, enamel, colour as required). Prior to painting all rust, grease and scales shall be removed.

4.5 All metallic components other than 4.4 and clamping screw shall be plated chromium over nickel conforming to Service Grade No. 3 of IS: 4827-1968 ' Specification for electroplated coatings of nickel and chromium on copper and copper alloys '.

5. Tests

5.1 *Vacuum Leakage Test-The* jar with the lid in tightened position shall be connected to an air pump and its air shall be evacuated to a pressure of 10 cm of mercury. With all the taps closed, there shall be no change in vacuum after a period of 24 hours.

5.2 *Thermal Shock Resistance* — The jar shall be dipped in hot water maintained at a temperature of 65 ± 5°C and then immediately transferred in cold water at 5 ± 1°C. The jar shall not crack or be damaged.

Medical Glass Instruments and Appliances Sectional Committee, CPDC 12: Glass Instruments and Appliances Subcommittee. CPDC 12 : 2 [Ref : Doc : CPDC 12 (371)]

Adopted 22 June 1977

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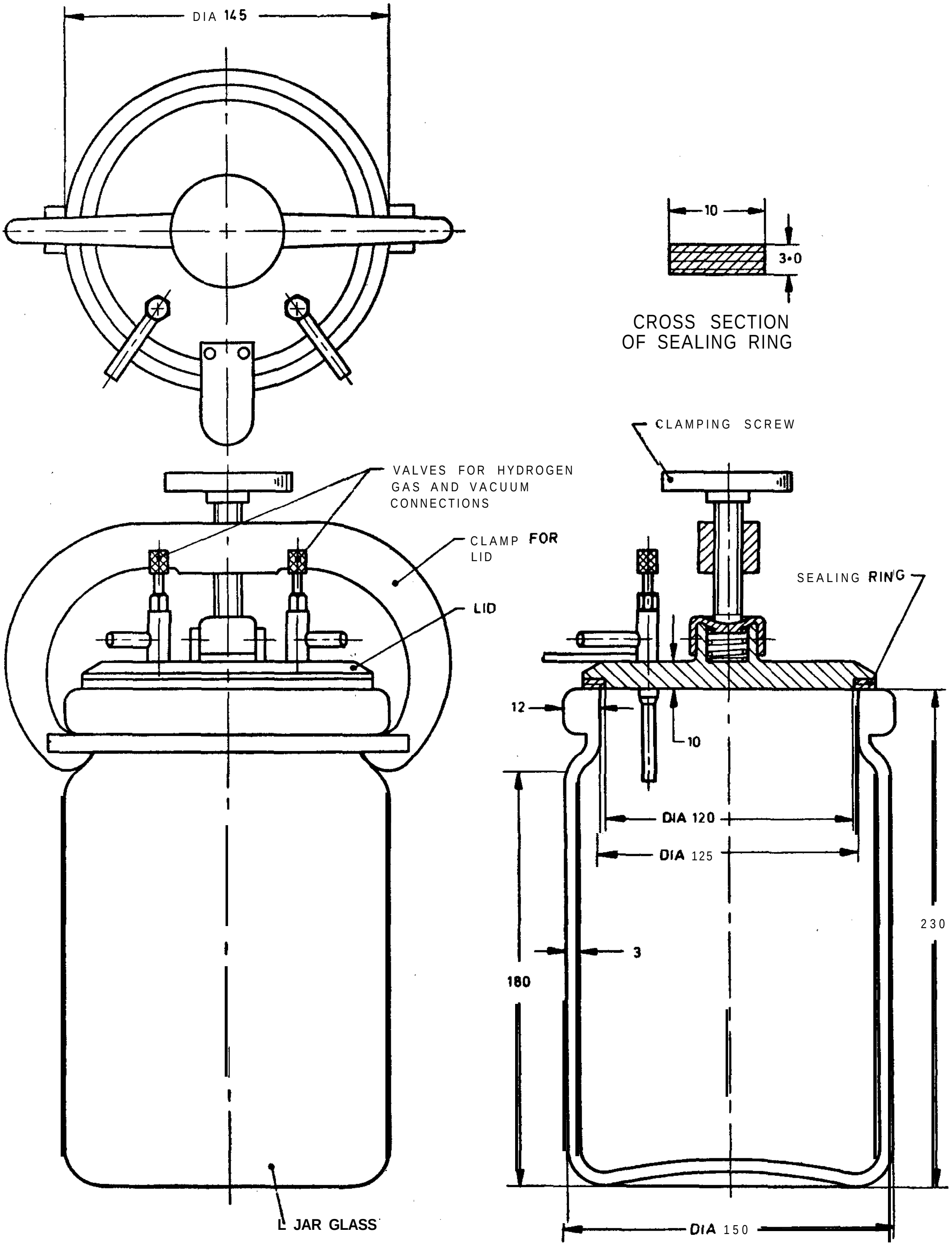
Price Rs [illegible] Gr

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARC
NEW DELHI 110002

6. Marking — Each jar shall be marked permanently and legibly with the name of the manufacturer, his initials or registered trade-mark.

6.1 *ISI Certification Marking* — Details available with the Indian Standards Institution.

7. Packing — As agreed to between the purchaser and the supplier.



All dimensions in millimetres.

FIG. 1 ANAEROBIC JAR, TYPICAL

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